

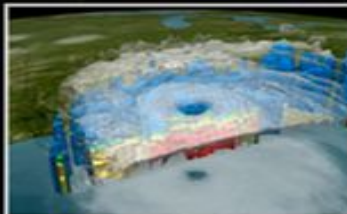
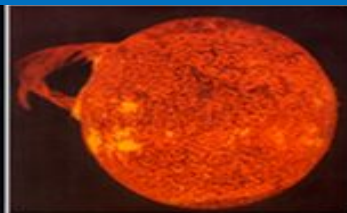
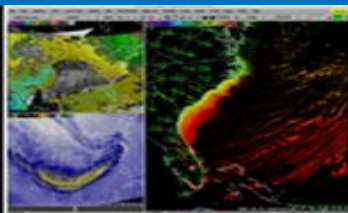


NOAA

National
Weather
Service

Ocean Prediction Center

Darin J. Figurskey
Operations Branch Chief





Why?



020208Z MAR 23
HYDROPAC 694/23(93).
SOUTH CHINA SEA.
VIETNAM.
DNC 11.

F/V BD 97874 TS, FOUR PERSONS ON BOARD,
FLOODING AND IN DANGER OF SINKING IN
12-59.00N 109-26.00E AT 012200Z MAR.
VESSELS IN VICINITY

REQUESTED TO KEEP A SHARP LOOKOUT, ASSIST IF
POSSIBLE. REPORTS TO MRCC VIETNAM,

HYDROLANT 448/23(38).
NORTH ATLANTIC.
DNC 19.

DISTRESS SIGNAL RECEIVED ON 406 MHZ
IN 51-51.40N 025-51.20W AT 270311Z FEB.
VESSELS IN VICINITY REQUESTED TO KEEP A SHARP
LOOKOUT, ASSIST IF POSSIBLE.



WESTERN INDIAN OCEAN.
DNC 02.

F/V LIEN SHENG FA CAPSIZED AND ADRIFT IN
17-40.10S 062-48.30E, 16 PERSONS MISSING.
VESSELS IN VICINITY REQUESTED TO KEEP A SHARP
LOOKOUT, ASSIST IF POSSIBLE.

DISTRESS SIGNAL RECEIVED ON 406 MHZ
FROM VESSEL BRAVE EAGLE IN
22-45.27S 151-22.07E AT 010227Z MAR.
VESSELS IN VICINITY REQUESTED TO KEEP
A SHARP LOOKOUT, ASSIST IF POSSIBLE.

WESTERN NORTH PACIFIC.
MICRONESIA.
DNC 12.

DISTRESS SIGNAL RECEIVED ON 406 MHZ
IN 06-45.20N 158-02.00E AT 280214Z FEB.
VESSELS IN VICINITY REQUESTED TO KEEP
A SHARP LOOKOUT, ASSIST IF POSSIBLE.

GULF OF MEXICO.

DNC 15.
KAYAK, RED AND YELLOW CAPSIZED IN
27-52.3N 091-59.1W AT 261936Z FEB.
VESSELS IN VICINITY REQUESTED TO KEEP A SHARP
LOOKOUT, ASSIST IF POSSIBLE.
REPORTS TO RCC NEW ORLEANS,

WESTERN NORTH ATLANTIC.
DNC 17.
DISTRESS SIGNAL RECEIVED ON 406 MHZ IN VICINITY OF
34-47.00N 072-10.10W AT 281525Z FEB 22. VESSELS IN VICINITY
REQUESTED TO KEEP A SHARP LOOKOUT, ASSIST IF POSSIBLE.
REPORTS TO RCC NORFOLK,

HYDROLANT 465/23(26).
WESTERN NORTH ATLANTIC.
DOMINICAN REPUBLIC.
DNC 16.

DISTRESS SIGNAL RECEIVED FROM S/V FREEDOM,
38 FOOT, WHITE HULL, ONE PERSON ONBOARD
IN VICINITY 20-20.40N 071-48.00W.
VESSELS IN VICINITY REQUESTED TO KEEP A SHARP LOOKOUT,
ASSIST IF POSSIBLE. REPORTS TO RCC MIAMI,

HYDROPAC 675/23(72).
EASTERN INDIAN OCEAN.
INDONESIA.
DNC 04.

F/V LINGGAR PETAK 89, SINKING IN 09-21.00S 115-03.00E.
FIVE PERSONS RESCUED, TEN PERSONS REMAIN MISSING.
VESSELS IN VICINITY REQUESTED TO KEEP A SHARP LOOKOUT,

HYDROPAC 660/23(63).
ARABIAN SEA.
DNC 03.

M/V IFB RUBY, NINE PERSONS ON BOARD, SINKING
IN 11-55.80N 070-12.30E AT 271148Z FEB.
VESSELS IN VICINITY REQUESTED TO KEEP
A SHARP LOOKOUT, ASSIST IF POSSIBLE. REPORTS TO
MRCC MUMBAI, PHONE: 9122 2438 8065, 9122 2438 3592,

MAN OVERBOARD FROM BHS PLATFORM IN VICINITY
19-22.4N 071-21.8E AT 242000Z FEB. MAN
NAMED ENOS VERGHESE. LAST SEEN WEARING
ORANGE OVERALLS VESSELS IN VICINITY REQUESTED TO KEEP A SHARP
LOOKOUT, ASSIST IF POSSIBLE.

GULF OF TONKIN.
VIETNAM.
DNC 23.
MAN OVERBOARD FROM F/V QNG 94808 TS IN
VICINITY 19-00.00N 106-00.00E AT 171400Z FEB.

At least 27
events from
2/20 to 3/1,
2023.





Why?



Heat Maps of extratropical hurricane-force lows in the Atlantic and Pacific since 2005.

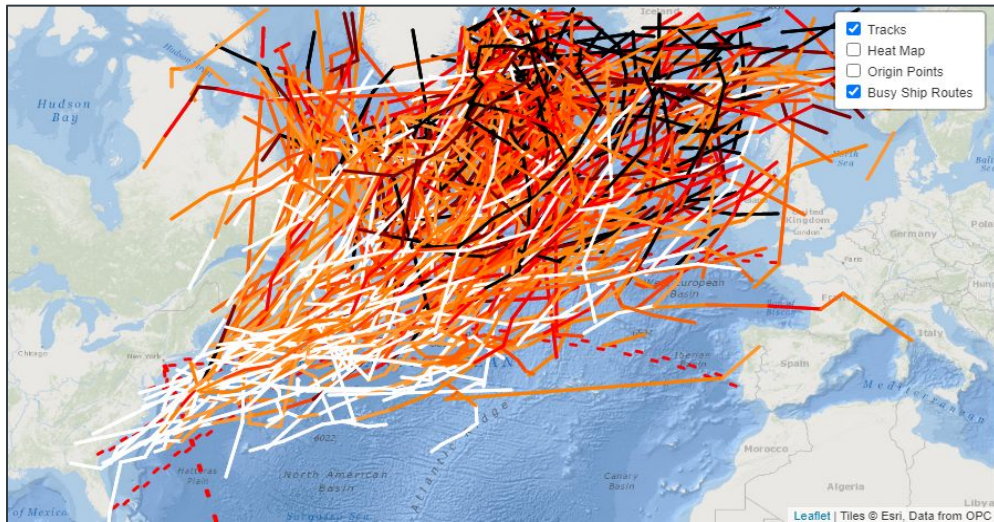
Atlantic average, 45

Pacific average, 36

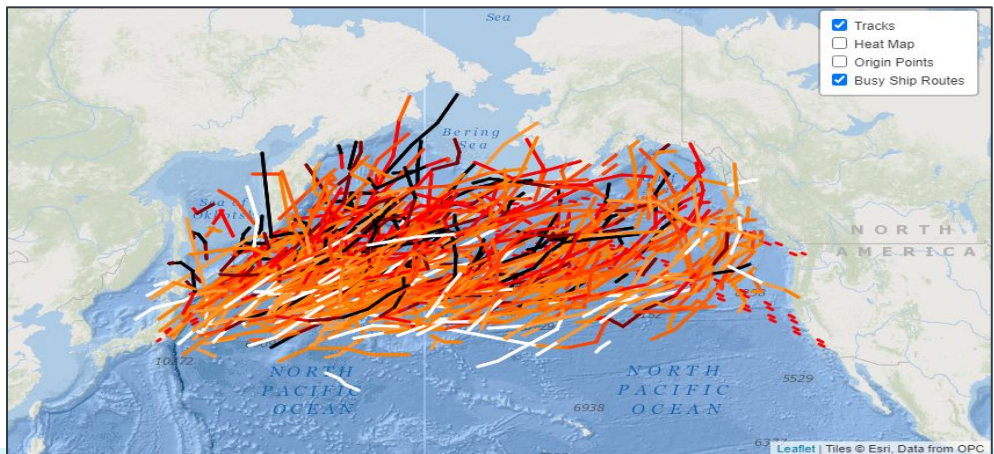


Courtesy: Jason Krekeler, OPC

Atlantic



Pacific





Atlantic

2022-23 Season June 1 - February 14

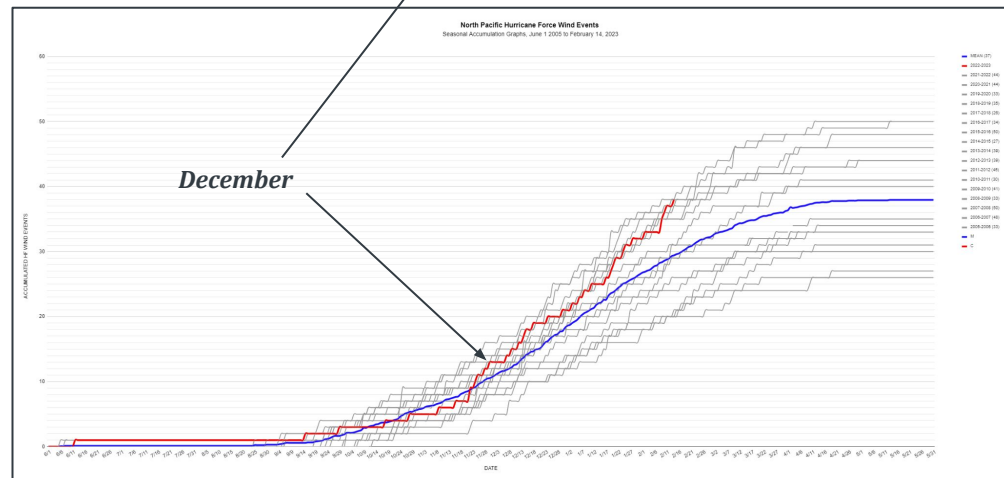
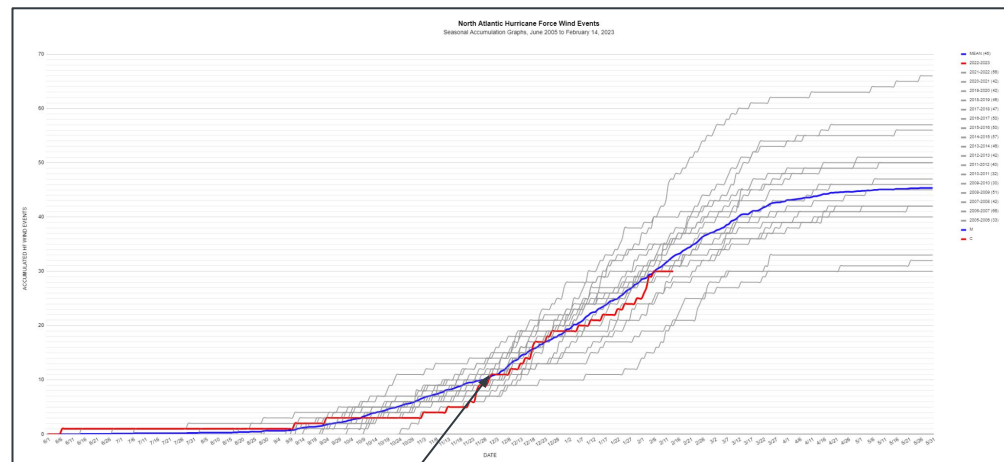
Every five days from June 1, 2022.

Normal trend = blue.

Current season = red.

Past years = gray.

Pacific especially active.

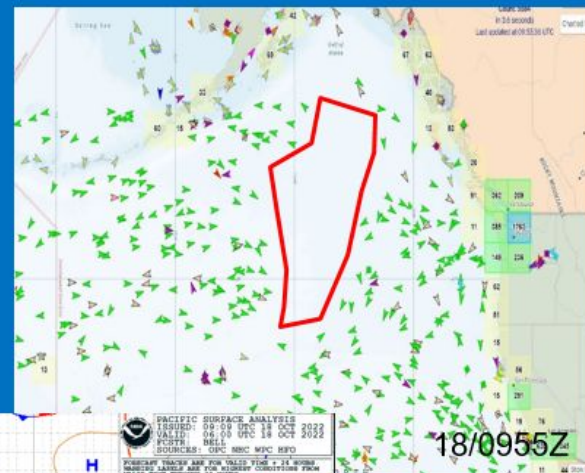
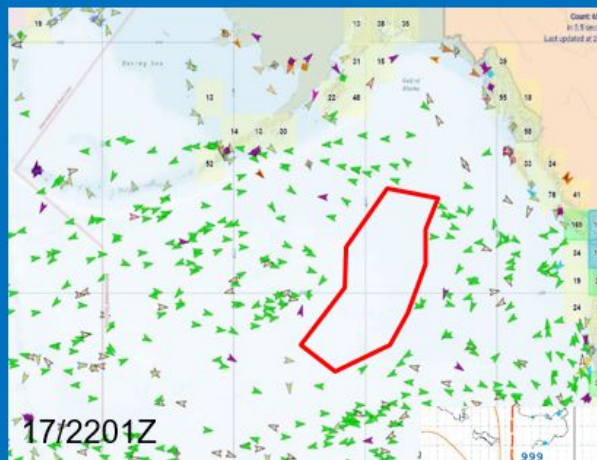
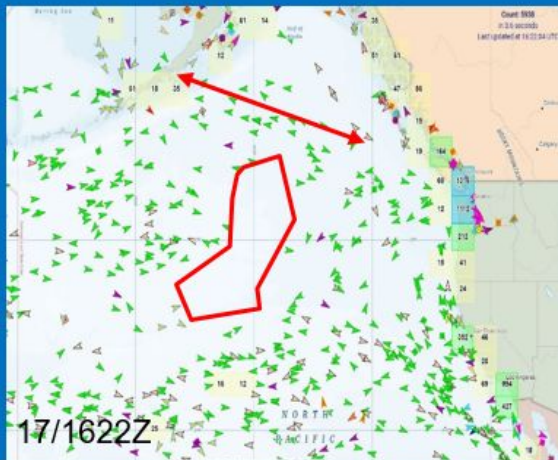


Pacific



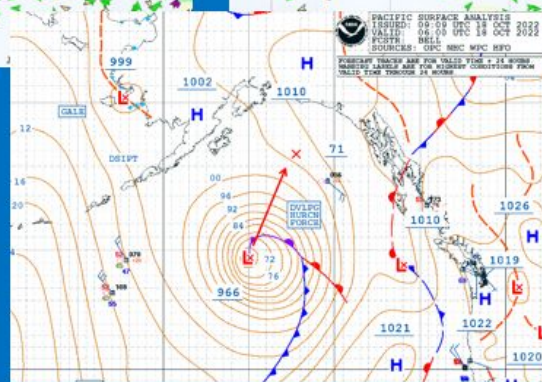


Developing Hurricane Force Low – Near Gulf of Alaska



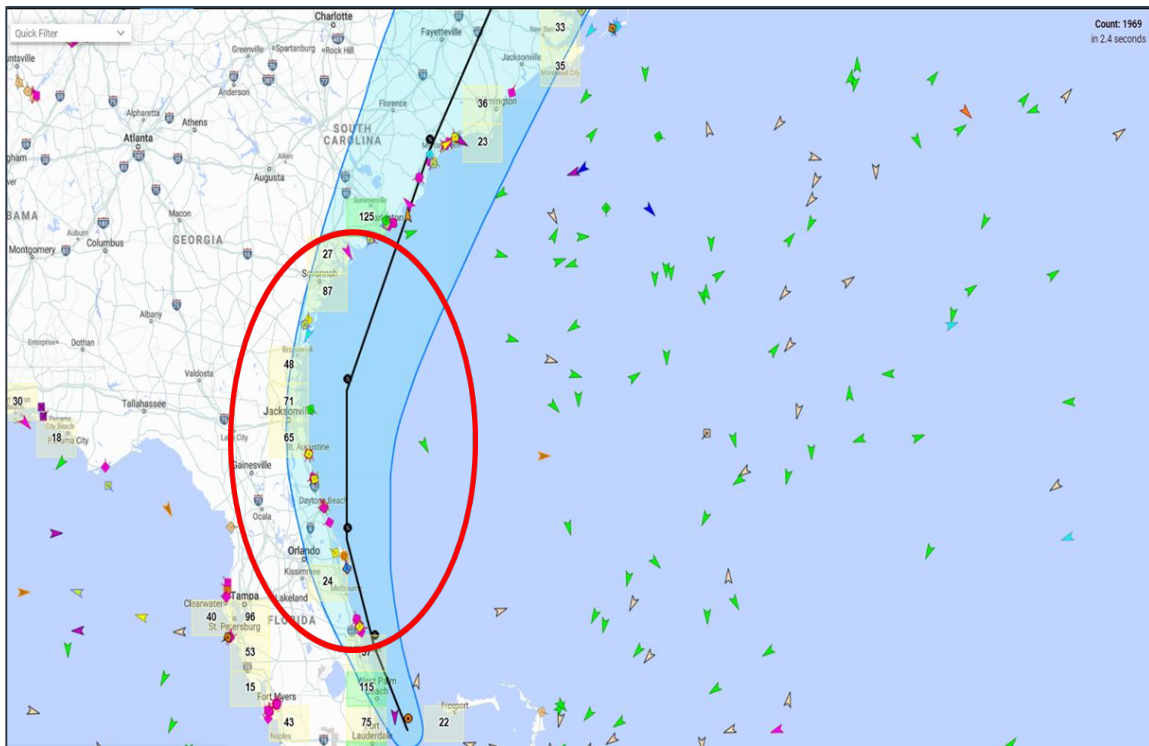
October 18, 2022

- Hurricane-force low developing
- Four days advanced forecast
- Seas 40 to 45 feet
- Growth in avoidance & migrates north
- Break in use of Great Circle Route
- *Maps courtesy [Seavision](#)*





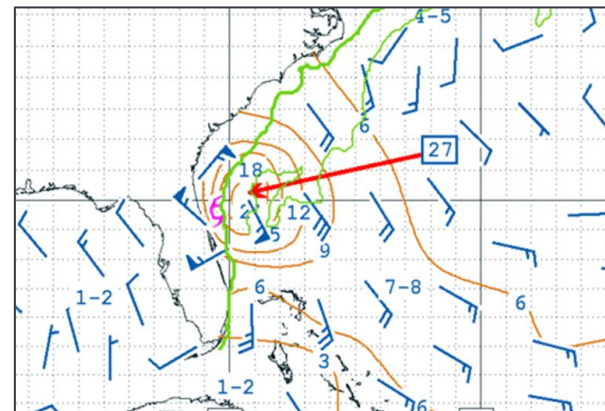
Isaias 2020



Courtesy: Seavision

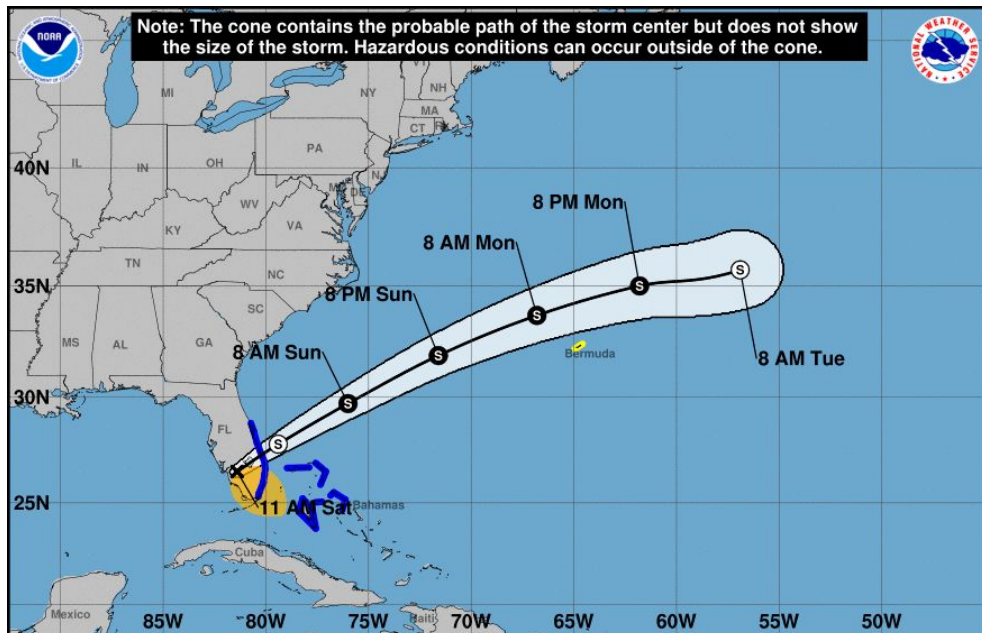
**Vessel Avoidance 1242 UTC
(842 AM EDT) August 2, 2020**

**Seas Forecast Valid 1200 UTC
August 3 – briefed to USCG D5**





Ian, June 4, 2022

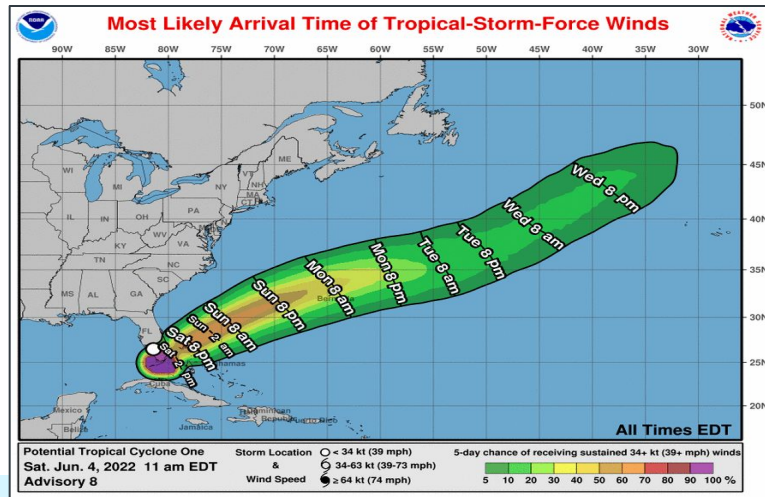
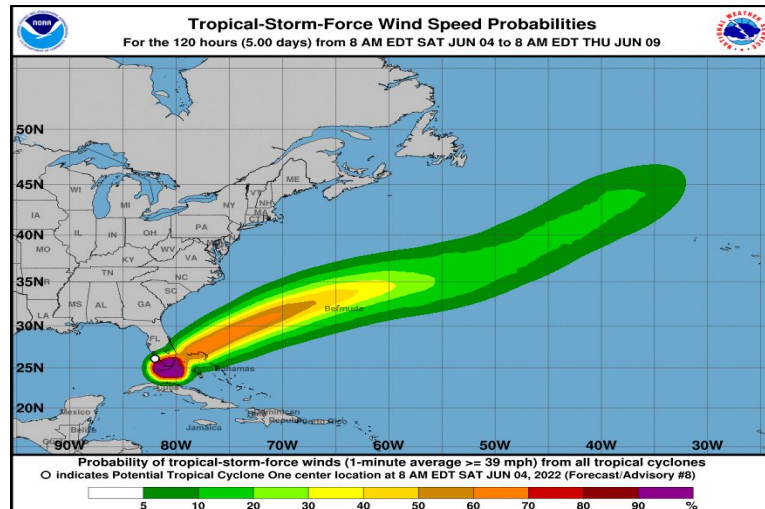


Potential Tropical Cyclone One
Saturday June 04, 2022
11 AM EDT Advisory 8
NWS National Hurricane Center

Current information: x
Center location 26.5 N 81.4 W
Maximum sustained wind 40 mph
Movement NE at 18 mph

Forecast positions:
● Tropical Cyclone ○ Post/Potential TC
Sustained winds: D < 39 mph
S 39-73 mph H 74-110 mph M > 110 mph

Potential track area: Day 1-3 Day 4-5
Watches: Hurricane Trop Stm
Warnings: Hurricane Trop Stm
Current wind extent: Hurricane Trop Stm





Decision Support Services



Potential Tropical Cyclone One Through Wednesday Night, June 8

KEY MESSAGES:

CALL TO ACTION: Vessels in the area should be making avoidance plans.

- At 5 AM EDT (0900 UTC), the poorly defined center of the disturbance was located near latitude 25.6 North, longitude 83.1 West. The system was moving faster toward the northeast near 16 knots (18 mph, 30 km/h), and this general motion is expected to continue through tonight.
- A turn toward the east-northeast with an additional increase in forward speed is expected on Sunday, followed by a turn toward the east Monday night. On the forecast track, the disturbance is expected to move across southern or central Florida today, over the southwestern Atlantic north of the Bahamas tonight, and near or to the north of Bermuda on Monday.
- Maximum sustained winds remained near 35 knots (40 mph, 65 km/h) with higher gusts, mainly in squalls.
- See the graphic at right for additional information, including watches and warnings.

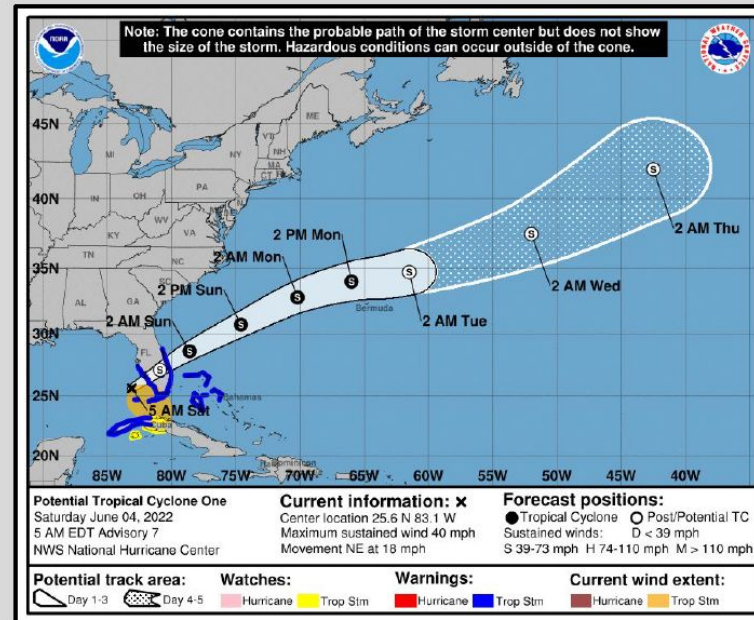


ISSUED: 12 UTC 4 June 2022



@NWSOPC
@NHC_Atlantic

Outlook for the Western Atlantic East Coast N of 31N to 65W



National Hurricane Center Forecast for Potential Tropical Cyclone One,
Valid 5 AM EDT / 09 UTC June 4.





Decision Support Services



NATIONAL WEATHER SERVICE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

Tropical Storm Kay

Through Tuesday (9/13)

KEY MESSAGES:

CALL TO ACTION: Vessels in the area should be executing avoidance plans now.

- At 0500 AM PDT (1200 UTC), the center of Tropical Storm Kay was located near latitude 30.0 North, longitude 116.2 West. Kay was moving toward the north-northwest near 11 knots (20 km/h). A slower northwest to west-northwest motion is forecast to begin today and continue into Saturday. A turn to the west is expected by late Saturday.
- On the forecast track, the center of Kay will move parallel to the coast of the northwestern Baja California peninsula through today, and then begin to move farther offshore by Saturday.
- Maximum sustained winds have decreased to near 45 knots with higher gusts to 55 kt. Additional weakening is expected during the next couple of days, and Kay is expected to degenerate into a remnant low by Saturday. See the graphic at right for additional information.



ISSUED: 16 UTC 9 September 2022



@NWSOPC
@NHC_Pacific

Outlook for the Pacific Coast

Pacific Ocean From 30N to 50N East of 133W



National Hurricane Center Forecast for Hurricane Kay,
Valid 5 AM PDT / 12 UTC September 9.





Decision Support Services



United States Coast Guard
U.S. Department of Homeland Security

The latest briefing for the Pacific Coast is attached. The next scheduled briefing will be Wednesday, MAR 8, by noon PST.

CANCEL AT: 082000Z MAR23

GENERAL INFO: NWS AND THE USCG ARE INVESTIGATING NEW METHODS FOR THE DISTRIBUTION OF WEATHER RELATED INFORMATION TO THE MARINER. FOR QUESTIONS OR COMMENTS, CONTACT US AT - USCG NAVCEN OR OUR 24/7 WATCH AT 703-313-5900.

ATTACHED: NWS EASTERN PACIFIC HAZARDOUS WEATHER OUTLOOK FOR THE WEEK OF 01 MAR 23.

- [USCG MAR 1 2023 - Pacific.pdf](#)

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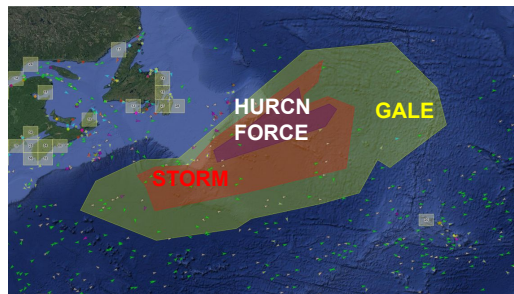
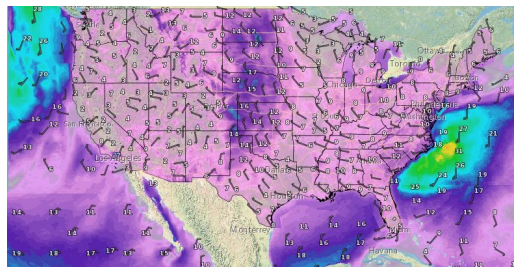
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Future of High Seas Forecasts?



HIGH SEAS FORECAST FOR METAREA XII
NWS OCEAN PREDICTION CENTER WASHINGTON DC
1145 UTC THU NOV 03 2022

CCODE/1:31:12:01:00/AOW+POR/NWS/CCODE
SUPERSEDED BY NEXT ISSUANCE IN 6 HOURS

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY BE MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

ONLY YOU KNOW THE WEATHER AT YOUR POSITION. REPORT IT TO THE NATIONAL WEATHER SERVICE. EMAIL US AT VOSOPS@NOAA.GOV(LOWERCASE).

SECURITE

PACIFIC N OF 30N AND S OF 67N E OF A LINE FROM BERING STRAIT TO 50N 160E

ALL FORECASTS VALID OVER ICE FREE FORECAST WATERS

SYNOPSIS VALID 0600 UTC NOV 03.
24 HOUR FORECAST VALID 0600 UTC NOV 04.
48 HOUR FORECAST VALID 0600 UTC NOV 05.

.WARNINGS.

...STORM WARNING...
.LOW 61N146W 985 MB MOVING S 05 KT. FROM 56N TO 60N E OF 163W...ALSO FROM 50N TO 57N BETWEEN 131W AND 136W WINDS 25 TO 40 KT. SEAS 10 TO 19 FT.
.24 HOUR FORECAST LOW 59N145W 993 MB. FROM 52N TO 59N BETWEEN 148W AND 162W WINDS 30 TO 45 KT. SEAS 9 TO 18 FT.
.48 HOUR FORECAST LOW 56N136W 992 MB. WITHIN 660 NM W AND 420 NM S QUADRANTS WINDS 35 TO 50 KT. SEAS 14 TO 26 FT. ELSEWHERE E OF A LINE FROM 59N160W TO 53N160W TO 50N150W TO 42N124W WINDS 25 TO 40 KT. SEAS 8 TO 16 FT.

...STORM WARNING...
.IN OF A LINE FROM 52N163E TO 46N160E WINDS TO 25 KT. SEAS TO 9 FT.
.24 HOUR FORECAST LOW 53N160E 996 MB. FRONT WILL EXTEND FROM LOW TO 50N161E TO 40N153E. WITHIN 120 NM E OF FRONT WINDS 35 TO 50 KT. SEAS 12 TO 21 FT. ELSEWHERE WITHIN 300 NM E OF FRONT WINDS 25 TO 40 KT. SEAS 8 TO 13 FT.
.48 HOUR FORECAST LOW 50N167E 1003 MB. FRONT WILL EXTEND FROM 59N170E TO LOW CENTER TO 42N163E TO 36N156E. WITHIN 120 NM E OF FRONT N OF 47N WINDS 35 TO 50 KT. SEAS 14 TO 23 FT. ELSEWHERE WITHIN 300 NM E OF FRONT WINDS 25 TO 40 KT. SEAS 8 TO 16 FT.

...STORM WARNING...
.LOW 38N178E 995 MB MOVING E 10 KT. WITHIN 180 NM NW QUADRANT WINDS 35 TO 50 KT. SEAS 16 TO 25 FT. ELSEWHERE WITHIN 480 NM N AND 300 NM W QUADRANTS WINDS 25 TO 40 KT. SEAS 10 TO 18 FT. ALSO FROM 31N TO 48N BETWEEN 175W AND 169E WINDS 20 TO 30 KT. SEAS 8 TO 14 FT.
.24 HOUR FORECAST LOW 39N179W 997 MB. WITHIN 240 NM N AND 180 NM W QUADRANTS WINDS 35 TO 50 KT. SEAS 17 TO 27 FT. ELSEWHERE WITHIN 300 NM N AND NW OF A LINE FROM 44N165W TO 40N179W...ALSO WITHIN 360 NM NW...300 NM SW AND 120 NM SE QUADRANTS WINDS 25 TO 40 KT. SEAS 10 TO 18 FT.
.48 HOUR FORECAST LOW 37N179W 1001 MB. FROM 40W TO 45N BETWEEN 175W AND 176E...AND FROM 33N TO 44N BETWEEN 175E AND 179W WINDS 25 TO 40 KT. SEAS 12 TO 21 FT.

...GALE WARNING...

Storm (Low, Front, Area, Line) -- TAFB (Gap Winds), OPC

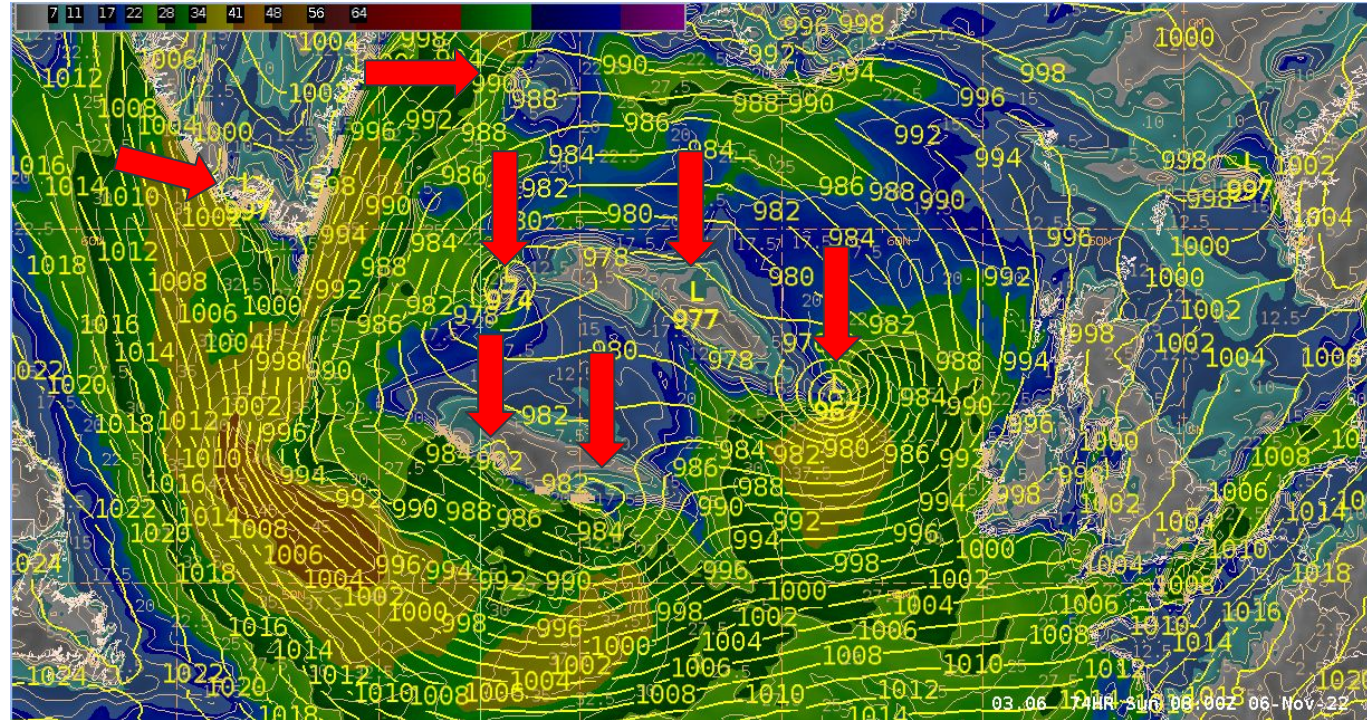
Event Level Parts	Example
eventHeader	WARNING 2020-00012: STORM
issueTime	ISSUED 1745 UTC TUE JUL 14 2020
initialDetails	.WITHIN 47N55W 46N51W 44N45W 47N55W WINDS 40 TO 50 KT.
forecastDetails	24 HOUR FORECAST WITHIN 47N55W 46N42W 45N52W 44N44W 47N55W. WINDS 40 TO 50 KT. .48 HOUR FORECAST WITHIN 48N56W 46N41W 46N52W 45N45W 48N56W. WINDS 40 TO 50 KT.

Gale (Low, Front, Area, Line) -- TAFB (Gap Winds), OPC

Event Level Parts	Example
eventHeader	WARNING 2020-00012: GALE
issueTime	ISSUED 1745 UTC TUE JUL 14 2020
initialDetails	.WITHIN 47N55W 46N51W 44N45W 47N55W WINDS 30 TO 40 KT.
forecastDetails	24 HOUR FORECAST WITHIN 48N56W 46N41W 46N53W 46N47W 48N47W 53N49W 56N52W 48N56W. WINDS 30 TO 40 KT. .48 HOUR FORECAST WITHIN 49N57W 47N42W 47N54W 47N48W 49N48W 54N50W 57N53W 49N57W. WINDS 30 TO 45 KT.

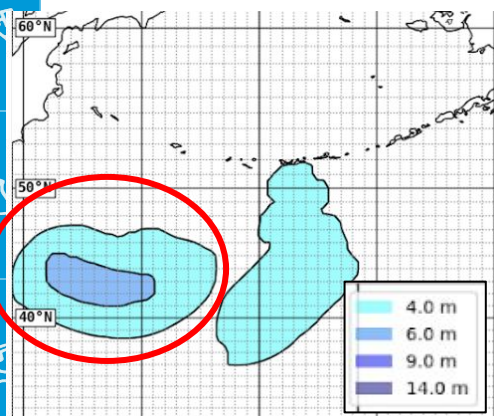
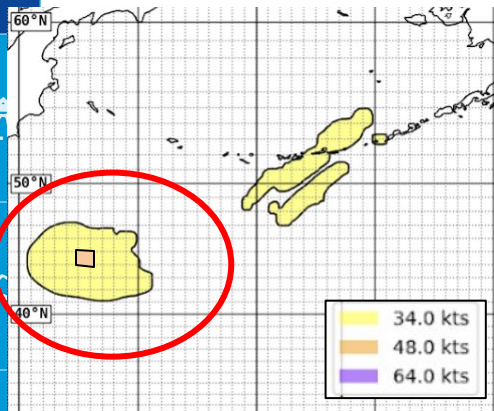


***GFS 74-hour
forecast, valid
November 6,
2022, 08 UTC***





Storm-Force Low: 1st 24-hr Period



WHPN02 KWBC 280015

HSWPAC

METAREA XII WARNING

ISSUED: 0015 UTC 2018 AUG 28

CCODE/2:31:12:11:00/AOE+AOW+POR/NWS/CCODE

PART A VALID: 24 HOURS STARTING 0000 UTC 2018 AUG 28

LOW 45N165E 988 MB MOVING NE 25 KT.

24 HOUR FORECAST LOW 51N178E 992 MB

1.STORM FORCE WARNING PA0200490827/18(005)

AREA: 44.0N 166.0E, 44.0N 165.0E, 45.0N 165.0E, 45.0N 166.0E

WINDS 48 TO 50 KT.

2.GALE FORCE WARNING PA0301060827/18(005)

AREA: 42.0N 171.0E, 41.0N 167.0E, 44.5N 160.0E, 47.0N 163.5E, 46.5N 170.0E

WINDS 34 TO 47 KT.

3.HIGH SEAS PA0700230826/18(005)

AREA: 45.0N 176.0E, 38.0N 169.0E, 43.0N 159.0E, 47.5N 163.5E

SIGNIFICANT WAVE HEIGHT 6 TO 9 M

4.VERY ROUGH SEAS PA0800920824/18(005)

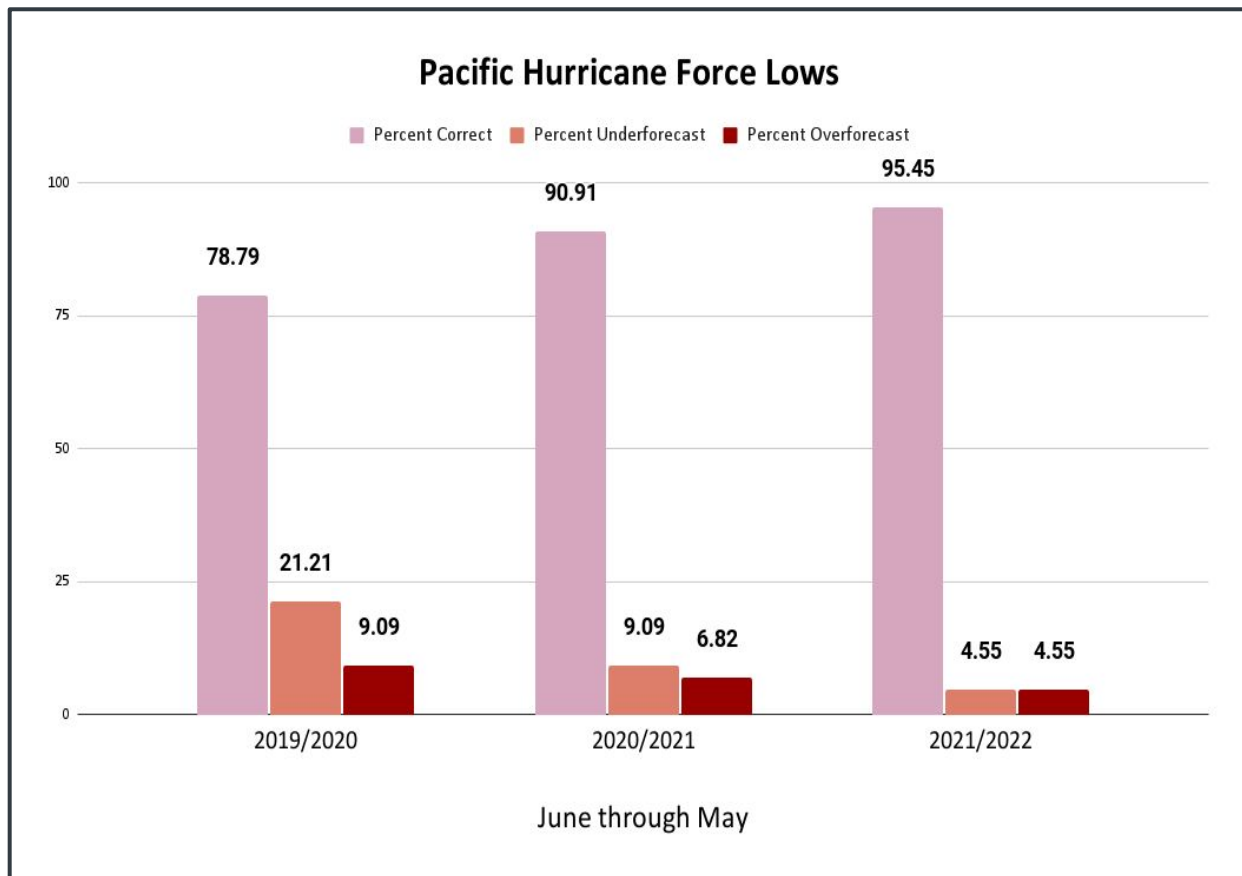
AREA: 42.5N 172.0E, 40.8N 168.0E, 43.0N 162.0E, 45.0N 162.0E, 44.0N 170.0E

SIGNIFICANT WAVE HEIGHT 4 TO 6 M





Verification



Courtesy: Jim Kells, OPC





Thank you!



Darin Figurskey

darin.figurskey@noaa.gov

